April 14, 2011

ADDENDUM NO. 1

To

CONTRACT DOCUMENTS

For

B.F. PHILLIPS COMMUNITY PARK – PHASE 3
CITY OF FRISCO
6101 Frisco Square Blvd.
Frisco, Texas 75034

Land Design Partners, Inc.
5310 Harvest Hill Rd., Suite 100
Dallas, Texas 75230

LDP Project # R0104130-60002

The following Items modify or supersede the provisions of the Drawings and Project Manual dated April 8, 2011 and become a part of the Contract Documents. The Addendum consists of itemized changes to specifications as indicated:

SPECIFICATIONS	**REFERENCE**	**DESCRIPTION**
Item 1.1	Division 2	Add Technical Specification Section 02345 – Lime Soil Stabilization

End of Addendum No. 1

SECTION 02345 – LIME SOIL STABILIZATION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Excavating, treatment, and placement of lime treated subsoil mix.

1.2 RELATED SECTIONS

A. Section 02060 - Aggregate.

B. Section 02316 - Rock Removal.

C. Section 02360 - Soil Treatment.

D. Section 02315 - Excavation and Fill: General site and building excavation.

E. Section 02320 - Backfill: General site and building backfilling.

F. Section 02324 - Trenching: Backfilling of utility trenches.

G. Section 03300 - Cast-In-Place Concrete: Concrete materials.

1.3 UNIT PRICE - MEASUREMENT AND PAYMENT

A. Lime/Subsoil Mix:

1. Basis of Measurement: By the square yard based on a lime/soil mix ratio of a minimum of 7% hydrated lime (by dry soil weight).
2. Basis of Payment: Includes supplying ingredient materials, scarifying substrate surface, mixing and placing where required, placing geotextile fabric, compacting and curing.

1.4 REFERENCES

A. TXDOT Standard Specification Item 260.

B. AASHTO M216 - Lime for Soil Stabilization.

C. ASTM C 977 - Quicklime and Hydrated Lime for Soil Stabilization.

D. ASTM D 698 - Moisture Density Relations of Soils and Soil-Aggregate Mixtures, Using 5.5 pound (2.49 kg) Rammer and 12 inch (304.8 mm) Drop.

E. NLA Bulletin 326 - Lime Stabilization Construction Manual.

1.5 SUBMITTALS

A. Product Data: Submit mix design and materials mix ratio that will achieve specified requirements.

B. Samples: Submit 10-pound sample of each type of fill in air-tight containers, to testing laboratory.

1.6 QUALITY ASSURANCE

A. Perform Work in conformance with TxDOT standard specification item 260 and the City of Frisco.

B. Work to be per Geo-technical report for this project.

1.7 ENVIRONMENTAL REQUIREMENTS

A. Do not install mixed materials in wind in excess of 10 mph or when temperature is below 35 degrees F.

PART 2 - PRODUCTS

2.1 MIX MATERIALS

A. Subsoil: Existing reused.

B. Lime: ASTM C 977.

2.2 ACCESSORIES

A. Curing Seal: Asphalt emulsion primer.

B. Geotextile Fabric:
   1. Non-woven polypropylene.
   2. Manufacturers:
      a. Akzo Nobel Geosynthetic Co.
      b. Huesker, Inc.
      c. Synthetic Industries.
      d. TC Mirafi.
      e. Tenax Corp.
      f. Tensar Earth Technologies, Inc.

2.3 EQUIPMENT

A. Capable of excavating subsoil, mixing and placing materials, wetting, consolidation, and compaction of material.

2.4 LIME/SOIL MIX

A. Mix materials in conformance with TxDOT standard specification item 260.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not place fill over frozen or spongy subgrade surfaces.

3.2 PREPARATION

A. Coordinate requirements with piling operations.

3.3 EXCAVATION

A. Protect adjacent structures from damage by this Work.

B. Excavate subsoil to the depth indicated.

C. Proof roll subgrade to identify soft areas; excavate those areas.

D. Do not excavate within normal 45 degree bearing splay of any foundation.

E. Remove lumped subsoil, boulders, and rock up to 1/3-cubic yard measured by volume. Larger material will be removed under Section 02229.

F. Notify A/E of unexpected subsurface conditions. Discontinue affected Work in area until notified to resume Work.

G. Correct areas over-excavated in accordance with Section 02315.

H. Stockpile excavated material in area designated on site; remove excess material not being reused from site.

3.4 SOIL TREATMENT AND BACKFILLING

A. Place geotextile fabric over subsoil surface, lap edges and ends.

B. Site mix subsoil, backfill and compact. Blend treated subsoil mix to achieve mix formulation and required stabilization.

C. Mix and wait 16 hours minimum and no more than 72 hours maximum before placing.

D. Place mix material in continuous layers not exceeding 8 inches depth.

E. Maintain optimum moisture content of mix materials to attain required stabilization.

F. Do not exceed 30 minutes in placing adjacent mixed material.

G. Commence compaction of mix no later than 60 minutes after placement.

H. Compact mix to ASTM D 698.

I. Slope grade away from building minimum 2 inches in 10 feet, unless noted otherwise.

J. Shape to required line, grade, and cross section.

K. Make grade changes gradual. Blend slope into level areas.

L. At end of day, terminate completed Work by forming a straight and vertical construction joint.

M. Replace damaged fill with new mix to full depth of original mix.

N. Remove surplus mix materials from site.

3.5 CURING

A. Immediately following compaction of mix, seal top surface with curing seal.

B. Do not permit traffic for 72 hours after sealing top surface.

3.6 TOLERANCES

A. Top Surface of Fill: Plus or minus 1 inch from required elevations.

3.7 FIELD QUALITY CONTROL

A. Compression test and analysis of hardened fill material will be performed in accordance with ASTM D 698.

B. If tests indicate Work does not meet specified requirements, remove Work, replace and retest.

C. Frequency of Tests: 5000 SF

3.8 SCHEDULE

A. Fill Under Slabs-On-Grade: Fill to 4 inches thick.

B. Fill Under Concrete Paving: Fill to 6 inches below finish paving elevation.

C. Fill to Correct Over Excavation: Subsoil mix, flush to required elevation.

END OF SECTION